

ABHINAV PANDEY

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EDUCATION

Indian Institute of Technology (IIT) Varanasi
B.Tech, Metallurgical Engineering

Varanasi, India
Nov 2022 - Present

TECHNICAL SKILLS

Programming Technologies: Java, Golang, Rust, TypeScript, C/C++, Python, R, NextJS, NodeJS
Machine Learning: PyTorch, Pandas, Seaborn, Scikit-Learn

WORK EXPERIENCE

Trumio INC

Software Engineer Intern (Part-Time)

San Jose, California (remote)

October 2024 - March 2024

- Designed and implemented an end-to-end **Hackathon** feature for the Trumio platform where I worked on the back-end aspect of the Hackathons.
- Built an RAG (Retrieval-Augmented Generation) LLM chatbot that leverages **ChromaDB**, **MongoDB**, and **Microsoft Teams**. The chatbot uses scheduled fetching of messages via the **Microsoft Graph API** to enhance intern productivity by focusing on current tasks.
- Technologies Used:** *Django, ChromaDB, Docker, MongoDB, Microsoft Graph API*

Google Summer of Code '24 - PEcAn Project

Student Software Developer

(Remote)

May 2024 - August 2024

- Optimized PEcAn for the free-standing use of single packages, enhancing maintainability by streamlining package **interfaces** and **data structures** which reduced package load time by almost **5 seconds**.
- Fixed production bugs, simplified module development, and reduced complexity by **10%**.
- Conducted comprehensive code reviews and wrote extensive unit tests and integration tests, ensuring free-standing usage of refactored packages.
- Technologies Used:** *JavaScript, R, Bash, PostgreSQL, Python*

PROJECTS

ClipCrafter

[Project Link]

- Engineered an innovative OpenAI-powered tool that intelligently extracts compelling shorts from YouTube videos providing a time-reducing open-source alternative to creators.
- Attracted a monthly traffic of **1000+** users, demonstrating its popularity and utility.
- Technologies Used:** *JavaScript, CSS, REST APIs, OpenAI, AWS*

Dotgenv

[Project Link]

- A global environment management package that configures **.env** files from the root of your system.
- Achieved over **200+** downloads, showcasing its reliability and widespread adoption.
- Technologies Used:** *TypeScript, Yargs-CLI, JavaScript, NPM*

Cat-GPT

[Project Link]

- Created an open-source **conversational AI** platform using a Dockerized Ollama **LLaMA3** model.
- The containerized application was deployed on AWS for enhanced scalability and efficient resource management.
- Technologies Used:** *Go, React.js, TypeScript, Docker, AWS*

CodeChat

[Project Link]

- Developed a scalable CLI tool for real-time messaging using **WebSockets** and **TCP protocols**.
- Implemented support for multiple concurrent users, ensuring seamless communication across the Web.
- Technologies Used:** *Go, WebSockets, Concurrency*

ACHIEVEMENTS

Open Source Contribution

October 2023

Accepted in **Google Summer of Code '24** (GSoC) as a Student Developer.

Opened **12+ PRs** in different organizations, achieving a spot in the **top 1000** of the **Hacktoberfest '23 Hall of Fame**.